Digital Security Controls

Publications Cover Sheet

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WARNING Please Read Carefully

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

Inadequate Installation

A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Locks and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that a security system be reviewed periodically to ensure that its features remain effective and that it be updated or replaced if it is found that it does not provide the protection expected.

Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operation of the system.

Power Failure

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

Failure of Replaceable Batteries

This system's wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

Compromise of Radio Frequency (Wireless) Devices

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

System Users

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates an alarm.

Smoke Detectors

Smoke detectors that are a part of this system may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the residence or building.

Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.

Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

Motion Detectors

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation.

Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbeques, fireplaces, sunlight, steam vents, lighting and so on.

Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

Telephone Lines

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time to protect the occupants or their belongings.

Component Failure

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

Inadequate Testing

Most problems that would prevent an alarm system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

Security and Insurance

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

CE

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29007110R001

• W A R N I N G •

This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read.

User Instruction Manual

DSC®

PowerSeries™

PC1616/1832/1864
v4.0 UK and higher

Zone	Protected Area	Zone Type
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		

About Your Security System

Your DSC security equipment has been designed to provide you with the greatest possible flexibility and convenience. Read this manual carefully and have your installer instruct you on your system's operation and on which features have been implemented in your system. All users of this system will be equally instructed in its use. All safety instructions will be presented by the engineer to the end-user. The Engineer will fill out the "System Information" page with all of your zone information. Please store this manual in a safe place for future reference and Engineer visits.

Fire Detection

This equipment is capable of monitoring fire detection devices such as smoke detectors and providing a warning if a fire condition is detected. Good fire detection depends on having adequate number of detectors placed in appropriate locations. This equipment should be installed in accordance with your local fire laws and recommendations. Carefully review the Family Escape Planning guidelines in this manual.

Monitoring

This system is capable of transmitting alarms, troubles and emergency information over telephone lines to a monitoring station.

General System Operation

Your security system is made up of a DSC control panel, one or more keypads and various sensors and detectors. The control panel will be mounted out of the way in a utility closet or in a basement. The metal cabinet contains the system electronics, fuses and standby battery. There is no reason for anyone but the installer or service professional to have access to the control panel.

All the keypads have an audible indicator and command entry keys. The LCD5500Z and LCD5501Z keypads have a liquid crystal display (LCD).

The keypad is used to send commands to the system and to display the current system status. The keypad(s) will be mounted in a convenient location inside the protected premises close to the entry/exit door(s).

The security system has several zones of area protection and each of these zones will be connected to one or more sensors (motion detectors, glassbreak detectors, door contacts, etc.). A sensor in alarm will be indicated by a siren icon on the LCD5501Z keypad or by a written message on the LCD5500Z keypad.

Record of Alarm Activation - A chart completed by the customer, which records all incidents of alarm activation.

Engineer Visit - A chart completed by the Engineer, records reason for visit and actions taken.

Access Codes

Access codes are used to arm and disarm the system. There are 37 access codes available: 1 master code, 32 regular access codes, 2 duress codes and 2 supervision codes. Ask your installer for more information on using the duress and supervision codes.

Only the Master Code can be used to program additional security codes and to change other system features as well as to arm and disarm the security system. The Master Code will be supplied to you by your installer. All keypad entries are made by pressing one key at a time. All access codes can be programmed by following the procedure outlined in “Programming Security Codes” on page 7.

IMPORTANT NOTICE

A security system cannot prevent emergencies. It is only intended to alert you and – if included – your monitoring station of an emergency situation. Security systems are generally very reliable but they may not work under all conditions and they are not a substitute for prudent security practices or life and property insurance. Your security system should be installed and serviced by qualified security professionals who should instruct you on the level of protection that has been provided and on system operations.

System Information

Fill out the following information for future reference and store this manual in a safe place.

Zone Information

There are _____ active zones on the system.

Zone	Protected Area	Zone Type
1		
2		
3		
4		
5		
6		
7		
8		

[F] FIRE* _____

[A] AUXILIARY* _____

[P] PANIC* _____

For more zones, please see page 19.

*** Delete if not used**

The Exit Delay Time is _____ seconds. The Entry Delay Time is _____ seconds.

For Service

Central Station Information:

Account #: _____ **Telephone #:** _____

Installer Information:

Company: _____ **Telephone #:** _____

Date of handover: .....

System demonstrated to: .....

Entry route: from .....

to .....

Exit route: from .....

to .....

Entry time: ..... (seconds)

Exit time: ..... (seconds)

Bell delay: ..... (minutes)

Bell duration: ..... (minutes)

Personal attack: ❑ silent ❑ audible

Isolatable zone(s): .....

NOTE: PA, Fire, Emergency and Entry Exit Zones are non-isolatable

Record the Certificate number (if any) on back cover.

System Information (Continued from page 2)

Fill out the following information for future reference and store this manual in a safe place.

Zone Information

There are _____ active zones on the system.

Zone	Protected Area	Zone Type
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		

Preventative Maintenance and Emergency Visits

ENGINEER VISIT			
Ref No.	Reason (see below)	Action	Engineer Signature

Enter Reason code as follows:

P = Preventative Maintenance C = Corrective Maintenance A = Audit
M= System Modification T = Temporary Disconnection N = N.A.C.O.S.S. Audit

The **Liquid Crystal Display** (LCD) prompts and system information are displayed on two 16 character lines.

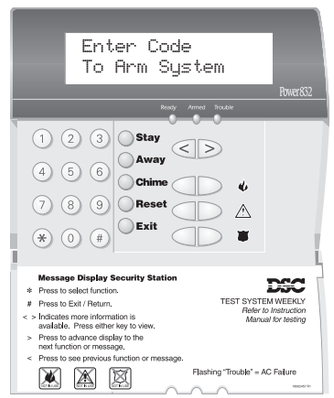
If "< >" appears, more information can be accessed by using the arrow (< >) keys. Press **[<]** to see the previous function or item of information. Press **[>]** to advance the display to next function or item of information.

Press the keys on the number pad as prompted by the LCD5500Z display to view alarms or troubles, to arm and disarm the system and to bypass zones.

To exit a function & return to the Ready state, press [#].

To select a function press [✱].

LCD5500(Z) Keypad



LCD5501(Z) Keypad

Emergency Keys

Press both 🔥* keys for two seconds to send a FIRE transmission.

Press both ⚠* keys for two seconds to send an AUXILIARY transmission.

Press both *keys for two seconds to send a PANIC transmission.

***IMPORTANT NOTE:** The Fire, Auxiliary and Panic keys will NOT function unless programmed by the installer. If these keys are in service and the installer has enabled audible feedback, holding down the key for two seconds will cause the keypad sounder to beep indicating that the input has been accepted and transmission is underway.

Display Lights

Ready Light

If the Ready light is ON, the system is ready for arming. The system cannot be armed unless the Ready light is ON (see "Arming the System" on page 4).

Armed Light

If the Armed light is ON, the system has been armed successfully.

Trouble or System Light

If the Trouble light is ON, see "Viewing Trouble Conditions" on page 9.

Function Keys

There are five function keys – marked Stay, Away, Chime, Reset and Exit, which allow easy single-button activation of the most commonly used features. You can execute the programmed function by pressing and holding the corresponding key for two seconds, followed by a valid access code. Corresponding function keys are number keys 1 to 5 respectively.

Stay - Press and hold the **Stay** button for about 2 seconds until you hear a beep. Then enter your 4 digit user code. The system will automatically arm in the Stay Mode after expiration of the exit delay.

Away - Press and hold the **Away** button for about 2 seconds until you hear a beep. Then enter your 4 digit user code. The system will automatically arm in the Away Mode after you have exited through your designated exit door.

Chime - The **Chime** feature will alert you every time your main entry/exit door is opened. This is a toggle option and can be turned on or off as required

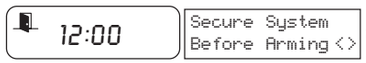
Reset - This button must be pressed to **Reset** your smoke detector if it has been activated. ***NOTE: If this is a wireless system it will reset automatically once any smoke has cleared from the detector.***

Exit - Press and hold the **Exit** button for 2 seconds to allow you to exit the premises without disarming and rearming.

Arming the System

Arming Procedure:

In an attempt to reduce false alarms, your system is designed to notify you of an improper exit when arming the system. When using the Push to Set or Final Door Set feature, entering your code to arm the system will start an infinite exit delay. The keypad will sound a beep once every second. If you violate a zone while exiting the premise the keypad will sound 6 quick beeps when you walk past a motion detector, an open a window or door with a magnetic contact on it. When you have opened and closed the Final Exit door or after closing the final exit door, have pressed the Push to Set button, the keypad will continue to beep once every second for 5 seconds. The panel uses these 5 seconds to allow time for the detectors on the system to settle back to their normal states. At the end of this settling time the system checks for detectors/windows/doors that may be open. If any of these are open the panel will sound a tone and arming will be canceled. If this occurs, you must re-enter the premises, check the system, close any open zones, and then follow the arming procedure again.

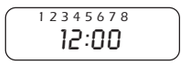


Zones Open

If the Ready light is ON, the system is ready for arming. If the Ready light is OFF and zones are open, the condition will be identified as shown. Ensure all doors and windows are closed and motion is stopped in areas covered by motion detectors. The system cannot be armed unless the Ready light is ON indicating that all zones are closed and the system is in the Ready state.

Zones Bypassed

If zones are bypassed on the system, the condition will be identified as shown. When this message appears on the LCD5500Z keypad, use the arrow (< >) keys to verify that no zones are bypassed unintentionally (see “Zone Bypassing” on page 7).



Trouble Conditions

If there is a trouble(s) present on the system, the Trouble (amber) light will be on and the condition will be identifed as shown (see "Viewing Trouble Conditions" on page 9).

Arming the System

If this display is showing, the system is in the Ready state and may be fully armed. To arm the system, enter your access code. ***NOTE: When a key is pressed on the LCD5501Z keypad, the display will go blank for approximately 2-3 seconds.***

Once the correct access code has been entered, the LCD5500Z will display the corresponding message. The panel will provide an exit delay period, also indicated by keypad beeps, for you to exit the premises without causing an alarm. You can restart the exit delay once by pressing the Away arming button before the exit delay expires. Exit through the door indicated by your installer as the Exit/Entry door.

Away Arm

When the system is Away Armed, the condition will be identifed as shown when the exit delay expires.

Arming the system in the Away arming mode will have all interior zones and perimeter zones active. If motion is detected in the interior zones, or if one of the perimeter zones is violated, the alarm sequence will begin.

To arm in the Away arming mode, enter your access code and exit the premises through a designated Exit/Entry door. The system will recognise that occupants have left the premises. Once the exit delay expires, the system will be fully armed. You can restart the exit delay once by pressing the Away arming button before the exit delay expires.

Preventative Maintenance and Emergency Visits

ENGINEER VISIT			
Ref No.	Reason (see below)	Action	Engineer Signature

Enter Reason code as follows:

P = Preventative Maintenance C = Corrective Maintenance A = Audit
M = System Modification T = Temporary Disconnection N = N.A.C.O.S.S. Audit

Record of Alarm Activations

INCIDENT			
Date	Time	Circuit	Action taken by customer

System Armed with Zones Bypassed

When the system is armed with zones bypassed, the condition will be identifed as shown, be aware of which zones are bypassed and why (see "Zone Bypassing" on page 7). ***NOTE: If you arm the system with a zone bypassed, your security protection is reduced.***

Stay Arm

When the system is Stay Armed, the condition will be identified as shown, when the exit delay expires.

This feature, will allow you to arm the perimeter zones while leaving the interior zones inactive so that you can remain on the premises while the system is armed. When you press the function key (Stay Arming Key) and then enter your access code to arm the system, it will arm in the Stay arming mode, automatically bypassing the interior zones.

The interior zones can be reactivated at any time by entering [✱][1] at any keypad. If you reactivate the interior zones, be sure to only inhabit areas not covered by motion detectors. To access areas protected by motion sensors, you must enter your security code and disarm the system.

Disarming the System

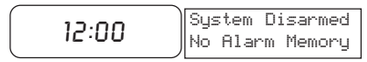
Disarming Procedure:

Entry Delay

Upon entering through a designated Exit/Entry door, the keypad will beep and the entry delay will commence, reminding you to disarm the system. The keypad will display the following message...

Disarming the System

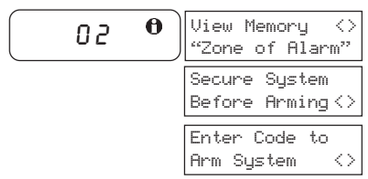
Enter your access code. **If an error is made when entering the code, press [#] to cancel and then re-enter the code again.** When a valid access code is entered, the keypad will stop beeping. If no alarms occurred while the panel was armed, and there are no troubles, the condition will be identified as shown.



After about five seconds, the system will return to the Ready state and the display will read as shown.

Alarm Memory

If an alarm occurred while the system was armed, the condition will be identified as shown. Use the arrow (< >) keys to view which zones caused the alarm.



Upon disarming and if a trouble is present, the Trouble (amber) LED will be on and this message will be displayed (see "Viewing Trouble Conditions" on page 9).

NOTE: If you return and find that an alarm has occurred while you were away, it is possible that an intruder may still be on the premises. Take appropriate action.

The alarm memory is cleared each time the panel is armed so that any alarms showing are alarms that occurred only during the last armed period.

If An Alarm Sounds

Fire Alarm

If your system has been installed with fire detectors and the alarm sounds in a pulsing mode, follow your emergency evacuation plan immediately (see “Fire Escape Planning” on page 13). If a smoke detector has been activated for any reason, it will need to be reset. To reset, press the function key marked "Reset" on the front of the keypad (see page 11). If it is a wireless smoke detector, its internal sounder pulses and it will reset automatically once smoke has cleared the chamber.

Intrusion Alarm

If an intrusion alarm sounds, indicated by a continuous Bell or Siren, the alarm may be silenced by entering your access code, if the alarm was unintentional.

You can determine the source of the alarm by following the instructions in the “Disarming” section (see page 5). Once the source of the alarm has been corrected, the system will require a reset.

NOTE: A fire alarm has priority over a burglary type alarm (all monitored systems).

Resetting the system

Your installer will let you know if your system is set up so that if there is an alarm, you will need to reset your system. This is done to ensure that after an alarm your system is working properly and reduce the risk of false alarms. There are three ways your system can be reset.

Engineer’s Reset

If an alarm has occurred on your system, the system will not allow you to rearm (Ready light is OFF). You will need to contact your installer. They will check and reset the system for you, this may involve a visit to check your system. After the reset is performed your system will function properly again.

Remote ‘Anti Code’ Reset

After you have silenced an alarm on your system, the LCD5500Z keypad will display a message “Remote Reset Rqd” along with a 4-digit Lock Code. The display will pause for 3 seconds, and then repeat the lock code. If your system needs resetting you will not be able to perform any system function, except for viewing the alarm memory ([*][3]) or activating command outputs such as sensor reset ([*][7]). The rest of the system will function as normal (i.e. alarms and troubles will still be monitored).

On the ICON keypad, the ❶ icon (alarm memory) appears with the number(s) of the activated zone(s). The number(s) will flash for 20 seconds. Then the trouble display indicators (1-8) will display a 4-digit reset code in the following sequence - you will see each number come up with a 1 second delay in between, then a 4 second delay with no numbers. This sequence will continue to repeat itself.

You will only be able to reset the system by entering a Reset Code. To get the reset code you will have to contact your installer or central station. Provide them with the 4-digit Lock Code number that is displayed on your keypad. Your installer or central station will in turn provide you with a new 4-digit Reset Code. Enter the Reset Code into the keypad. The keypad will reset and function system will return to normal.

Record of Alarm Activations

INCIDENT			
Date	Time	Circuit	Action taken by customer

Avoiding False Alarms

10 Points to Remember

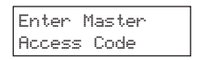
1. Make sure that the alarm system is operated only by persons who have been properly instructed.
2. Carefully close and secure all doors and windows before setting the alarm.
3. Check that movement detectors are not obstructed.
4. Do not allow sources of heat or sound, or permit moving objects in range of your movement detectors. Check that there is no unstable stock, and ensure that no birds or stray animals are present.
5. Know the specified entry/exit route and keep to it when the system is unset and set. Do not enter other protected areas until the system is unset.
6. Treat your alarm system with care and report all accidental damage to your alarm company.
7. Inform your alarm company of any changes in the building and storage of contents which may affect the alarm system.
8. Remember your code word (if applicable). In the event of a false alarm from a monitored private residential property wait by your telephone for a verification call from the monitoring centre. For non-domestic installations (e.g. commercial or retail) call the monitoring centre immediately to abort the false alarm.
9. Make sure your regular maintenance checks are carried out by your alarm company. Remember that repetitive false alarms may give rise to withdrawal of police response. Record all incidents/visits in this record book.
10. Check that all keys are readily available and that code numbers (if applicable) are known before entry.

Programming Security Codes

Programming Codes:

Master Code

Press [✱] key then [5] to enter Access Code Programming.



Enter your current Master Code. The display will read...

When the valid Master Code is entered, Access Code programming has been accessed. To change the master code, enter [4][0]. The keypad will change to…

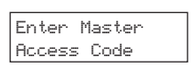
Enter the new Master Code. The Master Code must be four digits unless otherwise indicated by your installer. Enter digits 0 through 9 only. Once the new code is entered, the keypad will beep 3 times and the display will read...

Press [#] to exit the code programming function.

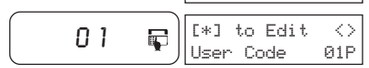
NOTE: We recommend that the factory default Master Code [1234] not be used.

Additional Access Codes

Simply press [✱] then [5] to enter Access Code programming.

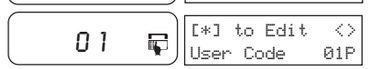


The keypads will display the corresponding messages...



When the valid Master Code is entered, Access Code programming has been accessed. On the LCD5500Z all programmed access codes will be identified by showing a "P" beside the code number. The scroll keys can be used to identify all programmed codes. The LCD5501Z keypad will alternately flash all programmed access codes on the display.

Enter the 2 digit code number you wish to add, edit, or delete (valid access codes are 01 through to 32).



To add or change a code, enter the new code. Access codes must be four digits unless otherwise indicated by your installer. Enter digits 0 through 9 only. To delete an access code, enter [✱]. Once the 4 digit code or [✱] has been entered, the keypad sounder will beep 3 times and the display will read as shown.

For the LCD5500Z, the "P" means the code has been programmed. If there is no "P" then that code is deleted. On the LCD5501Z, all programmed access codes will flash on the display when the access code has been programmed. Press [#] to exit the code programming function. **The Master code cannot be erased.**

Remember to record your new code(s) on the "System Information" page in this booklet.

Zone Bypassing

The zone bypassing function is used when access is needed to part of the protected area while the system is armed. Zones which are temporarily out of service due to damaged wiring or contacts may be bypassed to allow system arming until repairs can be made.

Bypassed zones will not cause an alarm. Zones cannot be bypassed once the system is armed. Bypassed zones are automatically cancelled each time the system is disarmed and must be reapplied before the next arming.

***NOTE:** For security reasons, your installer will program the system to prevent you from bypassing certain zones. Bypassing zones reduces your security protection. If you are bypassing a zone due to damaged wiring or contacts, please call a service technician immediately so that the problem can be resolved and your system returned to proper working order. Do not unintentionally bypass zones when you arm your system.*

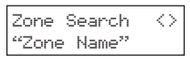
Additional Zone Bypassing Features

To recall the last set of bypassed zones, press [✱][1][9][9]. Arm the system. The Bypass light will turn on to indicate that zones are bypassed. To clear all bypassed zones, press [✱][1][0][0].

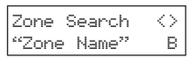
To bypass a zone:

To bypass a zone, the system must be in the Ready state. Press [✱][1] followed by your access code to enter the zone bypassing mode.

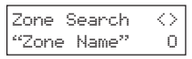
From the LCD5500Z



You can use the arrow (< >) keys to find the zone to be bypassed and press the [✱] key to select it. The display will read...

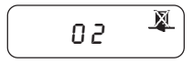


"B" will appear on the display to show that the zone is bypassed. To unbypass a zone, enter the zone number; the "B" will disappear from the display to show that the zone is no longer bypassed.



If a zone is opened, an "O" will be displayed on the keypad beside the zone number. ***NOTE: This feature is only available on the LCD5500Z.*** If you bypass the open zone, the "O" will be replaced by a "B".

From the LCD5501Z



On the LCD5501Z keypad, all bypassed zones will flash on the display. To bypass a zone, enter the zone number(s) as a double digit from 01 to 64. As each zone is bypassed, the corresponding zone number will turn ON and the Bypass Icon will appear on the screen. To unbypass a zone, simply enter the two digit zone number (you'll notice that the zone number will no longer flash on the display).

To exit the bypassing mode and return to the Ready state, press the [#] key.

Bypass Groups

A Bypass Group is a selection of zones programmed into the system's memory. The Bypass Group can be recalled upon arming to allow quick bypassing of a selection of zones on a regular basis.

To program the Bypass Group, perform the following:

1. Press [✱][1], followed by your access code.
2. Enter the zone numbers of the zones to be included in the Bypass Group. Each zone number is two digits.
3. Once all zones to be included have been selected, press [9][5].

To select the Bypass Group when arming the system, perform the following:

1. Press [✱][1], followed by your access code.
2. Press [9][1].
3. Press [#] to return to the Ready state. Arm the system.

Fire Escape Planning

There is often very little time between the detection of a fire and the time it becomes deadly. It is thus very important that a family escape plan be developed and rehearsed.

1. Every family member should participate in developing the escape plan.
2. Study the possible escape routes from each location within the house. Since many fires occur at night, special attention should be given to the escape routes from sleeping quarters.
3. Escape from a bedroom must be possible without opening the interior door.

Consider the following when making your escape plans:

- Make sure that all perimeter doors and windows are easily opened. Ensure that they are not painted shut, and that their locking mechanisms operate smoothly.
- If opening or using the exit is too difficult for children, the elderly or handicapped, plans for rescue should be developed. This includes making sure that those who are to perform the rescue can promptly hear the fire warning signal.
- If the exit is above the ground level, an approved fire ladder or rope should be provided as well as training in its use.
- Exits on the ground level should be kept clear. Be sure to remove snow from exterior patio doors in winter; outdoor furniture or equipment should not block exits.
- Each person should know of a predetermined assembly point where everyone can be accounted for i.e.: across the street or at a neighbour's house. Once everyone is out of the building, call the Fire Department.
- A good plan emphasizes quick escape. Do not investigate or attempt to fight the fire, and do not gather belongings or pets as this wastes valuable time. Once outside, do not re-enter the house. Wait for the fire department.
- Write the fire escape plan down and rehearse it frequently so that should an emergency arise, everyone will know what to do. Revise the plan as conditions change, such as the number of people in the home, or if there are changes to the building's construction.
- Make sure your fire warning system is operational by conducting weekly tests (see "Testing Your System" on page 10). If you are unsure about system operation, contact your installing dealer.
- We recommend that you contact your local fire department and request further information on fire safety and escape planning. If available, have your local fire prevention officer conduct an in-house fire safety inspection.

Maintenance

With normal use, the system requires minimum maintenance. The following points should be observed.

1. Do not wash the security station with a wet cloth. Light dusting with a slightly moistened cloth should remove normal accumulations of dust.
2. The battery/bell test is designed to determine battery condition. We recommended, however, that the stand-by batteries be replaced every three years.
3. For other system devices such as smoke detectors, passive infrared, ultrasonic or microwave motion detectors or glassbreak detectors, consult the respective manufacturer's literature for testing and maintenance.

Silence

To silence the bell or siren, press the [#] key. If the alarm is silenced and the smoke detector is not reset, the alarm will resound after 90 seconds.

Resetting Smoke Detectors

Once the smoke detector is reset, if it still detects smoke, the alarm sequence will resound as described above. If there is no smoke, the system will return to normal.

If a smoke detector has been activated for any reason, it will need to be reset. To reset, press the function key marked 'Reset' on the front of the keypad.

Activating Outputs:

Press (*) For <> Output Control	To access output controls, enter [✱][7]. The LCD5500Z display will read...
Select Output <> Command Output #1	Enter the output you wish to reset, (1-4), followed by a valid access code, if required. The LCD5500Z display will be as shown.
Select Output <> Command Output #2	
Command Output in Progress	When an output has been activated, the display will be as shown.

NOTE: There is no visual display on the LCD5501Z keypad.

NOTE: If you suspect that a fire alarm has transmitted and that there is no fire condition, call the monitoring station to avoid an unnecessary response. If a fire condition is apparent, follow your evacuation plan immediately. If the alarm sounds at night, evacuate immediately.

Household Fire Safety Audit

Most fires occur in the home. To minimize this danger, we recommend that a household fire safety audit be conducted and a fire escape plan be developed.

1. Are all electrical appliances and outlets in a safe condition? Check for frayed cords, overloaded lighting circuits, etc. If you are uncertain about the condition of your electrical appliances or household service, have a professional evaluate these units.
2. Are all flammable liquids stored safely in closed containers in a well ventilated cool area? Cleaning with flammable liquids should be avoided.
3. Are fire hazardous materials (matches) well out of reach of children?
4. Are furnaces and wood burning appliances properly installed, clean and in good working order? Have a professional evaluate these appliances.

Viewing Trouble Conditions

The control panel continuously monitors a number of possible trouble conditions. If one of these trouble conditions occur, the keypad will beep twice every 10 seconds until you press any key on the keypad.

Trouble conditions 1-8 are shown below:

1. Service Required: Press [1] to determine the specific trouble. Lights 1 - 8 will light up to indicate the trouble:

Light [1] **Low Battery:** Main panel backup battery charge is low (below 11.5 volts under load).Trouble is restored when the battery charges over 12.5 volts.

Light [2] **Bell Circuit Trouble:** The bell circuit is open.

Light [3] **General System Trouble:** There is an RF jam trouble, or a PC5204 Power Supply module has an AUX failure, PC5204 Output #1 Trouble, printer connected to the PC5400 Printer module has a fault and is off-line.

Light [4] General System Tamper: Tamper has been detected in a module.

Light [5] General System Supervisory: The panel has lost communication with a module connected to the Keybus The event buffer will log the event.

All tamper conditions must be physically restored before the trouble condition will clear.

Lights [6-8] – Not used

2. AC Failure: AC power is no longer being supplied to the control panel. The Trouble (or System) light will flash if an AC Failure is present, if the Trouble Light Flashes if AC Fails option is programmed (section [016], option [2]). This trouble will not be displayed if the AC Trouble Displayed option is disabled (section [016], option [1]).

3. Telephone Line Monitoring Trouble (TLM): There is a problem with the telephone line.

4. Failure to Communicate (FTC): The communicator failed to communicate with any of the programmed telephone numbers.

5. Zone Fault (including Fire Zone): A zone on the system is experiencing trouble, meaning that a zone could not provide an alarm to the panel if required to do so (e.g., a fire zone is open, or there is a short on a DEOL zone, or a supervisory fault on a wireless zone). When a zone fault trouble condition occurs, the keypad(s) on the system will start to beep. Press [5] while in Trouble mode to view the affected zones.

A Fire zone trouble will be generated and displayed in the armed state.

6. Zone Tamper: A zone configured for Double End Of Line resistor supervision has a tamper condition, or the tamper switch is open on a wireless device. When a tamper condition occurs, the keypad(s) will start to beep. Press [6] while in the Trouble mode to view the affected zones. If a zone is tampered or faulted, it must be fully restored to clear the trouble.

By enabling Tampers/Faults Do Not Show as Open in section [013], option [4], Faults and Tampers will not show as open on the keypad, and will be hidden from the end user. If the option is disabled, Faults and Tampers will be displayed on the keypad. Once a zone is tampered or faulted, it must be completely restored before the trouble condition will clear.

7. Device Low Battery: A wireless device has a low battery condition. Press [7] one, two, or three times to view which devices are experiencing battery failure. An LED keypad will indicate battery failure using zone lights 1 to 8. The following will occur:

Keypad beeps:		Keypad displays:
Press [7]	1	Zones with low batteries (LED keypad - zone lights 1 to 8)
Press [7] again	2	For Future Use
Press [7] again	3	Wireless keys with low batteries (LED keypad - zone lights 1 to 8)

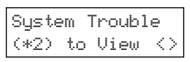
To view the battery conditions of wireless keys 9 through 16, you must use an LCD keypad.

8. Loss of System Time: When the panel is powered up, the internal clock needs to be set to the correct time. This trouble is cleared when an attempt is made to reset the clock.

NOTE: A TROUBLE condition reduces the security your system is designed to provide. Call your installing company for service.

To view troubles:

From the Ready state,



Press [✱][2] key to view the trouble. The LCD5500Z will display all troubles present on the keypad, use the arrow (< >) keys to view which troubles are present on the system.

The LCD5501Z keypad will display the number(s) representing the troubles present on the system (1-8). Call your installation company for service. Press the [#] key to exit the Trouble Viewing mode and return to the Ready state.

Setting the System Date and Time

To set the system time, enter [✱][6] followed by the Master Code. Press [1]. The keypad will now accept 10 consecutive digits:

- Enter the Time in Hours and Minutes using the 24 Hour format (00:00 to 23:59).
- Enter the Date in Months, Days and Years (MM DD YY).

NOTE: Your installer may have programmed your system to display the time and date while the keypad is idle. If this is the case, you may have to press the [#] key to clear the date and time before entering an access code to arm the system, or before performing any other keypad function.

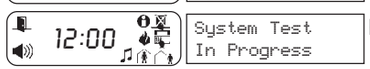
Testing Your System

Alarm Test

The Alarm Test provides a 2 second test of the keypad sounder and bell or siren.
Begin with the panel in the Ready state.

Press [✱] to enter the functions list. Use the arrow (< >) keys to scroll to find "User Functions" and press [✱] to select. Enter your Master Code and scroll to find the following message...

Press [✱] to perform an Alarm Test. The keypad will display the following message shown.



Press [#] to return to the Ready state.

Full System Test

NOTE: Perform system tests during off-peak hours, such as early morning or late evening.

1. Inform the monitoring station that you are testing your system.
2. Begin with the system in the Ready state.
3. Perform a Bell/Battery test by pressing [✱][6][Master Code][4]. The bell and keypad buzzer will sound for two seconds and all keypad lights will turn ON. Press [#] to exit.
4. Activate each sensor in turn (e.g. open a door/window or walk in motion detector areas).
   From the LCD5500Z keypad, the following message will be displayed when each zone is activated...

Use the arrow (< >) keys to view which zone is open. This message will disappear when the zone is restored. If using LCD5501Z keypad, all open zones will flash on the keypad. When the zone is closed, the zone number will no longer appear on the display.

5. If the panel has any fire zones, activation will cause the alarm signal to sound in a pulsed mode.

CAUTION: Do not use an open flame or burning materials to test a smoke or heat detector. Contact your installer for information on safe methods of testing detectors.

6. When testing is complete, call and advise the monitoring station. Should the system fail to function properly, contact your installer.

Door Chime Feature

The door chime feature is used to provide a tone from the keypad each time a door or window is opened or closed. The doors and windows which will provide this indication are programmed by your installer.

To enable the CHIME Feature, press and hold the chime button until you hear a beep and the musical note icon appears on the display. To turn the feature off again, press and hold the chime key until you hear a long beep and the icon will disappear

Keypad Options

Keypad Sounder Control (LCD5500Z only)

The LCD5500Z keypad will allow you to select from 21 different keypad tones. From the LCD5500Z keypad, enter [✱][6][Master Code], then use the arrow keys (< >) to scroll to the message "Keypad Buzzer Control". Press [✱] to select. Use the arrow keys (< >) to scroll to the desired keypad sound level and press the [#] key to exit.

Keypad Sounder Control (LCD5501Z only)

Press and hold the [✱] key and the buzzer will ascend in tone. Press and hold the [✱] key again, it will descend in tone.

The following three options are accessed by entering [✱] [6] [Master code]. Use the arrow (< >) keys to scroll to the appropriate message and press [✱] to select.

Brightness Control

The LCD5500Z keypad will allow you to select from 10 different backlighting levels. Use the arrow keys (< >) to scroll to the desired backlighting level and press the [#] key to exit.

Contrast Control

The LCD keypad will allow you to select from 10 different display contrast levels. Use the arrow keys (< >) to scroll to the desired contrast level and press the [#] key to exit.

Viewing the Event Buffer from an LCD Keypad

Select "View Event Buffer" from the [✱][6] menu. The keypad will display the event, event number, time and date along with the zone number and user code, if applicable. Press [✱] to toggle between this information and the event itself. Use the arrow keys (<>) to scroll through the events in the buffer. When you have finished viewing the Event Buffer, press the [#] key to exit.

Downloading Enable

To enable a 6-hour downloading window from any system keypad, enter [✱] [6] [Master code] [5]. During this time, the panel will answer incoming downloading calls. DLS downloading software allows you to program and control supported DSC security systems from any PC-compatible computer. DLS can send data and programming information to, and retrieve it from security systems using a modem, or using the DSC PC-LINK device.

DLS allows for the ability to upload status reports from control panels, as well as print and view reports about the security system. Additionally, DLS can execute batch files to perform preprogrammed functions on a security system.

Fire Alarm Operation

Alarm

On a fire alarm, the bell or siren will pulse ON and OFF. The transmission of the alarm to the monitoring station is delayed for 30 seconds. If the alarm is not cleared within the 30 second delay, then it will be transmitted to the monitoring station.